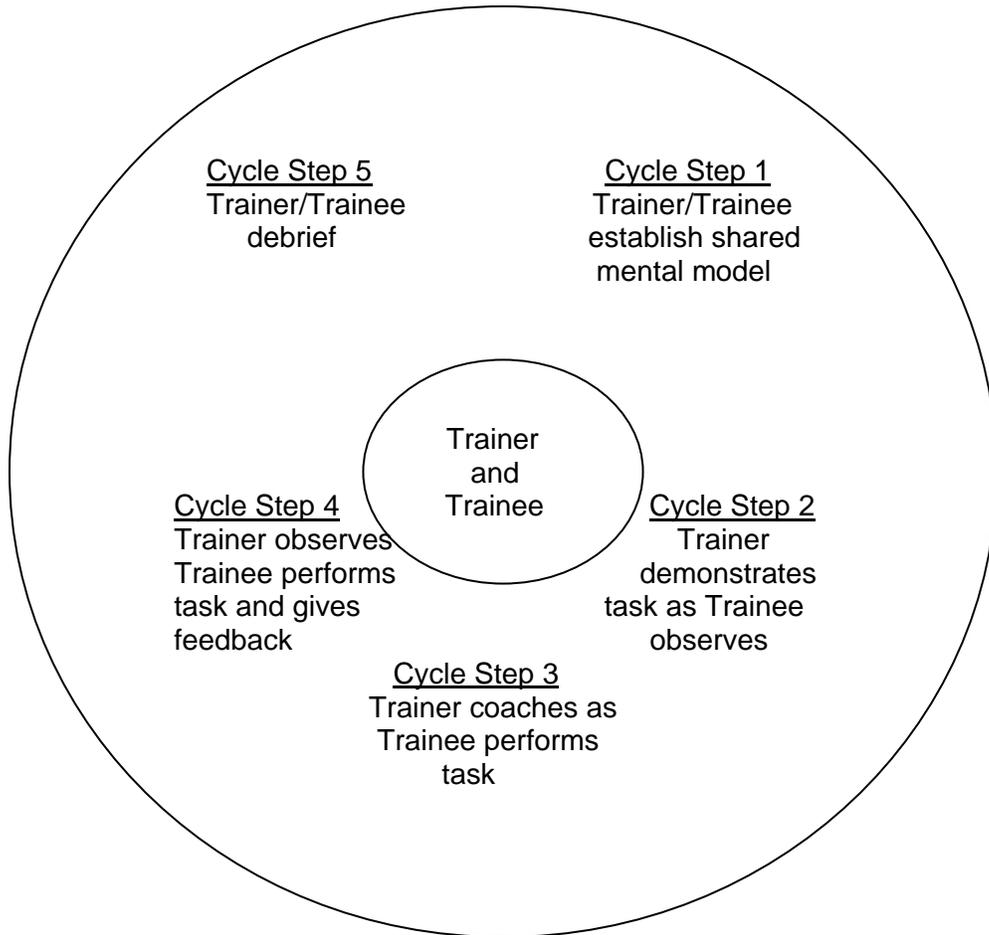


OJT Training Module Cover Sheet

Title: 114 Texture-How to estimate soil texture of soils with different kinds of clay.
Type: <input checked="" type="checkbox"/> Skill <input type="checkbox"/> Knowledge
Performance Objective: Trainee will be able to ... <ul style="list-style-type: none">• Describe and record soil texture according to NCSS guidelines using clay estimates that are unbiased by kind of clay present in the soil.
Target Proficiency: <input type="checkbox"/> Awareness <input type="checkbox"/> Understanding <input type="checkbox"/> Perform w/ Supervision <input checked="" type="checkbox"/> Apply Independently <input type="checkbox"/> Proficiency, can teach others
Trainer Preparation: <ul style="list-style-type: none">• Trainer should be familiar with the assigned reading/review material in the lesson plan that follows.• Have soil samples and field locations with pit, trench, road cut, or auger borings available.• Have calibration samples of similar percent clay from appropriate kinds of clay for the survey area or in general.• Have the <i>Field Book for Describing and Sampling Soils</i> available.• Have hardcopy of the 232 soil description form or Pedon PC available.
Special Requirements: <ul style="list-style-type: none">• Initiate an external learning request with a SF-182 in Aglearn for this activity. Instructions and a template are located on the training webpages for OJT modules.• If you do not have clay kind calibration samples, you could ask the NSSL to provide these to you
Prerequisite Modules: <ul style="list-style-type: none">• 101 How to use the <i>Field Book for Describing and Sampling Soils</i>.• 102 How to fill out a 232 soil description form.• 112 How to describe sand, silt, and clay in the soil.
Notes: None
Authors: Marc Crouch
Approved by: Shawn McVey

The Five-Step OJT Cycle for Procedural Training (Skill)



OJT Module Lesson

Title: **114 Texture-How to estimate soil texture of soils with different kinds of clay.**

WHAT	WHY, WHEN, WHERE, HOW, SAFETY, QUALITY
<p>Cycle step 1</p>	<p>Trainee should access via the internet and read Soil Survey Manual, Chapter 3 sections on Soil Separates and Soil Texture under Particle Size Distribution.</p> <p>Trainee should have previously accessed and read National Soil Survey Handbook 618:</p> <ul style="list-style-type: none"> • Particle-size-Sand Percentage • Texture Class, Texture Modifier, and Terms Used in Lieu of Texture <p>Trainee should have previously accessed via the internet and read Soil Survey Field and Laboratory Methods Manual, Soil Survey Investigations Report No. 51, version 1.0; section 3.2.1, pages 41-46, Feel Method. Focus for this module is on the paragraphs under <i>Interferences</i> beginning on page 42.</p> <p>Access hardcopy or via the internet and review material about texture in the <i>Field Book for Describing and Sampling Soils</i>, focusing on the texture classes.</p>
<p>Cycle steps 2 & 3</p>	<p>Do the following:</p>
<p>1. Review what can be recorded according to the Field Book and SSM.</p>	<p>Note that you record texture class.</p>
<p>2. Demonstrate how to “feel” and differentiate different kinds of clay.</p>	<p>Do this in the field or in the office. Have the trainee do this step along with you as you demonstrate.</p> <ol style="list-style-type: none"> 1. Use calibration samples, with different kinds of clay, of same or similar clay content to get a “feel” for different kinds of clay. 2. Using samples with lab particle-size analysis available, feel the clay and estimate the percent clay in the sample. Compare estimate to the lab data.
<p>3. Demonstrate how to describe and record soil texture with samples having different clay kinds as they occur in the</p>	<p>3. Record the appropriate texture on the 232 soil description form or Pedon PC.</p>

survey area.	
Cycle step 4	Repeat cycle step 3 without coaching. During project activities, assign the trainee the task of describing soil texture as soil descriptions are completed.
Cycle step 5	Answer any questions. Repeat any steps as necessary.

OJT Module Lesson Measurement of Learning

Title: 114 Texture-How to estimate soil texture of soils with different kinds of clay.

WHAT	WHY, WHEN, WHERE, HOW, SAFETY, QUALITY
Describe soil texture routinely during project activities.	During project activities, assign this task to the trainee. Sign off on performance when target proficiency is achieved.

SF-182

Trainee and/or supervisor access Aglearn to verify completion of the module via its SF-182.